

Title (en)
HARDWARE SUPPORT FOR OS-CENTRIC PERFORMANCE MONITORING WITH DATA COLLECTION

Title (de)
HARDWARE-UNTERSTÜTZUNG FÜR OS-ZENTRISCHE LEISTUNGSÜBERWACHUNG MIT DATENSAMMLUNG

Title (fr)
SUPPORT MATÉRIEL POUR UNE SURVEILLANCE DES PERFORMANCES CENTRÉE SUR L'OS COMPORTANT UNE COLLECTE DE DONNÉES

Publication
EP 3719652 A3 20210519 (EN)

Application
EP 20167499 A 20200401

Priority
RO 201900215 A 20190403

Abstract (en)
A system, method, apparatus and integrated circuit are provided for collecting runtime performance data with a set of hardware timers under control of a dedicated hardware control register by connecting a central processing unit (CPU) and memory to a timer block bank having a plurality of timer instances which are selectively enabled and activated to collect runtime performance data during execution of application code by measuring specified software execution events, where the dedicated hardware control register includes a plurality of register fields for independently controlling activation behavior of the plurality of timer instances in response to a single write operation to all register fields in the hardware control register.

IPC 8 full level
G06F 11/30 (2006.01); **G06F 11/34** (2006.01); **G06F 11/36** (2006.01)

CPC (source: CN EP US)
G05B 23/0213 (2013.01 - CN); **G06F 9/30101** (2013.01 - US); **G06F 11/302** (2013.01 - EP); **G06F 11/3419** (2013.01 - EP US); **G06F 11/3466** (2013.01 - EP); **G06F 11/348** (2013.01 - EP); **G06F 30/35** (2020.01 - US); **G05B 2219/24065** (2013.01 - CN); **G06F 11/3612** (2013.01 - EP); **G06F 11/3636** (2013.01 - EP); **G06F 2201/805** (2013.01 - EP); **G06F 2201/86** (2013.01 - EP); **G06F 2201/865** (2013.01 - EP); **G06F 2201/88** (2013.01 - EP); **Y02D 10/00** (2018.01 - EP)

Citation (search report)
• [XAY] US 5657253 A 19970812 - DREYER ROBERT S [US], et al
• [XAY] US 6446029 B1 20020903 - DAVIDSON JOEL ROGER [US], et al
• [X] US 2003036883 A1 20030220 - MERICAS ALEXANDER E [US]

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US2020348973A1; CN112363898A; EP4020216A1; US12044730B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3719652 A2 20201007; EP 3719652 A3 20210519; EP 3719652 B1 20230412; CN 111796574 A 20201020; CN 111796574 B 20240820; US 11016768 B2 20210525; US 2020319884 A1 20201008

DOCDB simple family (application)
EP 20167499 A 20200401; CN 202010184595 A 20200316; US 201916431124 A 20190604